



Proposed Code Change  
State Form 41186R

RETURN TO:  
INDIANA DEPARTMENT OF HOMELAND SECURITY  
CODE SERVICES SECTION  
302 W. Washington Street Room W246  
Indianapolis, IN 46204

FOR OFFICE USE ONLY

Received 11/9/09

Code 52.3.2.5

INSTRUCTIONS:

Only TYPED copy accepted.

(KEY – Dashed line through material to be deleted, underline material to be added)

Use second sheet for any material requiring more space.

Code Title 2009 Indiana Residential Code		Edition First Edition
Section number and title Table N1102.1 Insulation and Fenestration Requirements by Component		Page 1 of 2
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PROPOSED CODE CHANGE (Check One)		

☒ Change to read as follows    ☐ Add to read as follows    ☐ Delete and substitute as follows    ☐ Delete without substitution

TABLE N1102.1  
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT \*

CLIMATE Z O N E	FENES- TRATION U-FACTOR <sup>b</sup>	SKY- LIGHT U- FACTOR <sup>b</sup>	GLAZED FENEST- RATION SHGC <sup>b,c,g</sup>	CEILING R- VALUE	WOOD FRAME WALL R- VALUE	MASS WALL R- VALUE <sup>h</sup>	FLOOR R- VALUE	BASEMENT <sup>c</sup> WALL R- VALUE	SLAB <sup>d</sup> R- VALUE & DEPTH	CRAWL SPACE <sup>e</sup> WALL R- VALUE
1	1.20	0.75	<del>0.35</del> <u>0.30<sup>i</sup></u>	30	13	3/4	13	0	0	0
2	0.65 <sup>j</sup>	0.75	<del>0.35</del> <u>0.30<sup>i</sup></u>	30	13	4/6	13	0	0	0
3	0.50 <sup>j</sup>	0.65	<del>0.35</del> <u>0.30<sup>i</sup></u>	30	13	5/8	19	5 / 13'	0	5 / 13
4 except Marine	0.35	0.60	NR	38	13	5/10	19	10 / 13	10, 2ft	10 / 13
5 and Marine 4	0.35	0.60	NR	38	20 or 13+5 <sup>h</sup>	13/17	30 <sup>h</sup>	10 / 13	10, 2ft	10 / 13

6	0.35	0.60	NR	49	20 or 13+5 <sup>h</sup>	15/19	30 <sup>a</sup>	<del>40</del> 13 15 / 19	10, 4ft	10 / 13
7 and 8	0.35	0.60	NR	49	21	19/21	<del>30</del> 38 <sup>a</sup>	<del>40</del> 13 15 / 19	10, 4ft	10 / 13

- a. *R*-values are minimums. *U*-factors and Solar Heat Gain Coefficient (SHGC) are maximums. R-19 batts compressed into nominal 2 x 6 framing cavity such that the *R*-value is reduced by R-1 or more shall be marked with the compressed batt *R*-value in addition to the full thickness *R*-value.
- b. The fenestration *U*-factor column excludes skylights. The SHGC column applies to all glazed fenestration.
- c. The first *R*-value applies to continuous insulation, the second to framing cavity insulation; either insulation meets the requirement.
- d. R-5 shall be added to the required slab edge *R*-values for heated slabs. Insulation depth shall be the depth of the footing or 2 feet, whichever is less in Zones 1 through 3 for heated slabs.
- e. There are no SHGC requirements in the Marine Zone.
- f. Basement wall insulation is not required in warm-humid locations as defined by Figure N1101.2 and Table N1101.2.
- g. Or insulation sufficient to fill the framing cavity, R-19 minimum.
- h. "13+5" means R-13 cavity insulation plus R-5 insulated sheathing. If structural sheathing covers 25% or less of the exterior, R-5 sheathing is not required where structural sheathing is used. If structural sheathing covers more than 25% of exterior, structural sheathing shall be supplemented with insulated sheathing of at least R-2
- ki. The second *R*-value applies when more than half the insulation is on the interior.
- i. ~~For impact-rated fenestration complying with Section R301.2.1.2, the maximum *U*-factor shall be 0.75 in zone 2 and 0.65 in zone 3.~~
- j. ~~For impact-resistant fenestration complying with Section R301.2.1.2 of the International Residential Code, the maximum SHGC shall be 0.40.~~
- j. For impact rated fenestration complying with Section R301.2.1.2 of the *International Residential Code* or Section 1608.1.2 of the *International Building Code*, the maximum *U*-factor shall be 0.75 in Zone 2 and 0.65 in Zone 3.

#### REASON

This proposal changes the IRC Table N1102.1 2009 to be equivalent to the IECC, and is one of the recommended changes to bring the IRC into equivalence with the IECC.

**Fiscal impact:** no increase to the cost of construction, current amendment language.

#### REVIEW RECOMMENDATION

Approve

Disapprove

Approve as amended

Further Study